

Application No.: 10/697,772

Docket No.: JCLA10907

In The Claims:

Please amend the claims according to the following listing of claims and substitute it for all prior versions and listings of claims in the application.

Claim 1 (currently amended) An operating system loading method, for loading an operating system from a storage device, comprising:

judging whether the operating system is first time booted or not;

creating a cluster-list-table if the operating system is first time booted; and

loading the operating system according to the cluster-list-table, wherein the cluster-list-table is sorted based on a cylinder number, a head number, and a sector number.

Claim 2 (previously presented) The operating system loading method of claim 1, further comprising:

generating a check sum if booting the operating system is judged first time; and

judging whether an operating system file is modified or not based on the check sum.

Claim 3 (currently amended) The operating system loading method of claim 1, wherein creating the cluster-list-table comprises:

searching a plurality of clusters where the operating system file is saved; and

sorting and saving as the cluster-list-table thereof according to information on the clusters.

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Claim 4 (original) The operating system loading method of claim 1, wherein the storage device is a hard disk drive.

Claim 5 (canceled)

Claim 6 (original) The operating system loading method of claim 1, wherein the storage device is a flash drive.

Claim 7 (original) The operating system loading method of claim 1, wherein the operating system is an embedded operating system.

Claim 8 (currently amended) An operating system loading method, for loading an operating system stored in a plurality of clusters of from a storage device, comprising:

reading a cluster-list-table;

sorting the cluster-list-table according to a sequence of a cylinder number, a head number, and a sector number ~~new sequence of cylinder, head, and sector numbers thereof;~~

creating an updated cluster-list-table after sorting the cluster-list-table; and

loading the operating system according to the updated sequence of the cluster-list-table.

Claim 9 (previously presented) The operating system loading method of claim 8, further comprising:

judging whether the operating system is first time booted or not;

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generating a check sum for the operating system if the operating system is first time booted; and

judging whether an operating system file is modified or not based on the check sum.

Claim 10 (original) The operating system loading method of claim 8, further comprising:

judging whether the operating system is first time booted or not;

searching a plurality of clusters where the operating system file is saved if loading the operating system is judged first time; and

sorting and saving as the cluster-list-table thereof according to information on the clusters.

Claim 11 (original) The operating system loading method of claim 8, wherein the storage device is a hard disk drive.

Claim 12 (canceled)

Claim 13 (original) The operating system loading method of claim 8, wherein the storage device is a flash drive.

Claim 14 (original) The operating system loading method of claim 8, wherein the operating system is an embedded operating system.

Claim 15 (canceled) The operating system loading method of claim 1, wherein the cluster-list-table is sorted to create a new sequence of loading the operating system.

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Claim 16 (previously presented) The operating system loading method of claim 15, wherein the cluster-list-table is sorted according to a new sequence of cylinder, head, and sector numbers of the cluster-list-table.

Claim 17 (previously presented) The operating system loading method of claim 16, wherein the new sequence is arranged in a manner that the cylinder, head, and sector numbers thereof are arranged in an ascending order.

Claim 18 (previously presented) The operating system loading method of claim 1, wherein the cluster-list-table is defined by an array structure of:

```
struct Cluster-list-table{  
    ULONG ulNumber;  
    ULONG ulSector;  
    ULONG ulCylinder;  
    ULONG ulHead;  
}ClustersList[ ];
```

Claim 19 (previously presented) The operating system loading method of claim 8, wherein the new sequence is arranged in a manner that the cylinder, head, and sector numbers thereof are arranged in an ascending order.

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Claim 20 (previously presented) The operating system loading method of claim 8, wherein the cluster-list-table is defined by an array structure of:

```
struct Cluster-list-table{  
    ULONG ulNumber;  
    ULONG ulSector;  
    ULONG ulCylinder;  
    ULONG ulHead;  
}ClustersList[ ];
```